



YUMA COUNTY AIRPORT AUTHORITY

**Appendix B**  
**ENVIRONMENTAL EVALUATION**  
**AGENCY RESPONSE**  
**and COMMENT LETTERS**

## Appendix B

### TABLE OF CONTENTS

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	<i>Page</i>
U.S. Department of Agriculture, Natural Resources Conservation Service .....	B-1
U.S. Department of the Army, Corps of Engineers .....	B-2
U.S. Department of the Interior, Bureau of Reclamation .....	B-3
U.S. Department of the Interior, Fish and Wildlife Service .....	B-4
Arizona Department of Agriculture .....	B-11
Arizona Department of Environmental Quality .....	B-12
Arizona State Land Department .....	B-14
Arizona State Parks .....	B-15
State of Arizona, Game and Fish Department .....	B-16
Yuma County, Department of Development Services .....	B-19
City of San Luis .....	B-24
City of Somerton .....	B-26
Southwest Gas Corporation .....	B-27



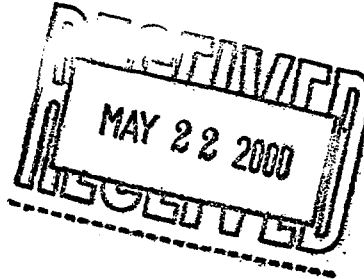
United States  
Department of  
Agriculture

Natural  
Resources  
Conservation  
Service

3003 N. Central Ave.  
Suite 800  
Phoenix, AZ  
85012-2495

May 17, 2000

Ms. Karen Apple  
Airport/Environmental Planner  
Coffman Associates  
11022 N. 28<sup>th</sup> Drive, Suite 240  
Phoenix, Arizona 85029



Dear Ms. Apple:

This response is in regard to your letter dated April 27, 2000, concerning the proposed master plan and associated development at Rolle Airfield project in Yuma County, Arizona.

The Natural Resources Conservation Service (NRCS) has general responsibility, nationwide, for implementing the Farmland Protection Policy Act (FPPA) and to review projects that may affect prime farmland and/or wetlands associated with agriculture. After reviewing the information provided, the following is noted:

- 1- The proposed new project if implemented as planned, is exempt from the requirements of the FPPA - as revised in 1994, that excludes land which is already in or is committed to urban development, currently used as water storage, or land that is not prime or unique farmland.
- 2- We do not see any immediate concerns or impacts that would directly affect wetland areas associated with agriculture.

Should you have questions, please feel free contact Jeff Schmidt, Community Assistance Coordinator at 602.280.8818. Thank you again for the chance to review the proposed projects.

Sincerely,

MICHAEL SOMERVILLE  
State Conservationist

cc:

Jim Briggs, Assistant State Conservationist, NRCS, Phoenix, Arizona  
Roberta McDermott, District Conservationist, NRCS, Yuma, Arizona  
Jeff Schmidt, Community Assistance Coordinator, NRCS, Phoenix, Arizona



DEPARTMENT OF THE ARMY  
LOS ANGELES DISTRICT, CORPS OF ENGINEERS  
ARIZONA-NEVADA AREA OFFICE  
3636 NORTH CENTRAL AVENUE, SUITE 760  
PHOENIX, ARIZONA 85012-1936

May 19, 2000

Office of the Chief  
Regulatory Branch

Ms. Karen J. Apple  
Coffman Associates Airport Consultants  
11022 N. 28th Drive, Suite 240  
Phoenix, Arizona 85029

File Number: 2000-01196-EHB

Dear Ms. Apple:



It has come to our attention that Coffman Associates has been contracted to prepare an Airport Master Plan for Rolle Airfield in order to identify facilities that will be needed at the airport over a 20-year planning period and to determine the most desirable means to provide these facilities in Yuma County, Arizona.

This activity may require a Department of the Army permit issued under Section 404 of the Clean Water Act. A Section 404 permit is required for the discharge of dredged or fill material into the "waters of the United States," including adjacent wetlands. Examples of activities requiring a permit are placing bank protection, temporary or permanent stock-piling of excavated material, grading roads, grading (including vegetative clearing operations) that involves the filling of low areas or leveling the land, constructing weirs or diversion dikes, constructing approach fills, and discharging dredged or fill material as part of any other activity.

Enclosed you will find a permit application form and a pamphlet that describes our regulatory program. If you have questions, please contact Elizabeth H. Brooks at (602) 640-5385 x 223. Please refer to file number 2000-01196-EHB in your reply.

Sincerely,

*Cindy Lester*

Cindy Lester  
Chief, Arizona Section  
Regulatory Branch

Enclosure(s)



# United States Department of the Interior



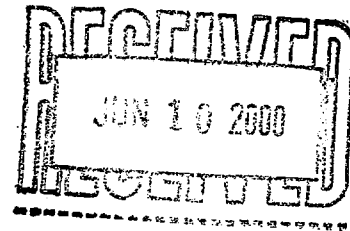
## BUREAU OF RECLAMATION

Yuma Area Office  
P.O. Box D  
Yuma, Arizona 85366

IN REPLY REFER TO:

YAO-2240  
ENV-1.10

JUN -9 2000



Ms. Karen J. Apple  
Airport/Environmental Planner  
Coffman Associates  
11022 North 28th Drive,  
Suite 240  
Phoenix AZ 85029

Subject: Request for Information on Environmental Resources and  
Sensitive Species for Rolle Auxiliary IV Airfield  
(Aux IV) Master Plan (Plan), Yuma County, Yuma, Arizona

Dear Ms. Apple:

Yuma Area Office (YAO) has reviewed the subject letter dated  
April 27, 2000. YAO provides the following comments for your  
consideration:

The Aux IV is located in Township 10 South, Range 24 West,  
Section 35 and is approximately 2 miles from the Reclamation Yuma  
Desert Flat-Tailed Horned Lizard (*Phrynosoma Mcallii*) (FTHL)  
Management Area. Aux IV has historically been FTHL habitat.  
FTHL's have been observed on the runway pavement.

Aux IV was built in the early 1940's and will need to be  
evaluated to determine National Register eligibility. In  
addition, Class III cultural resources surveys and Native  
American consultations will need to occur prior to any  
construction activities.

If you have any questions, please contact Ms. Chris Bates,  
Environmental Protection Specialist, at 520-343-8266 or  
Ms. Carol Telles, Archaeologist, at 520-343-8567 for any  
additional information or clarification regarding this matter.

Sincerely,

Michael E. Vandavelde, P.E.  
Chief, Technical Services  
Division



# United States Department of the Interior

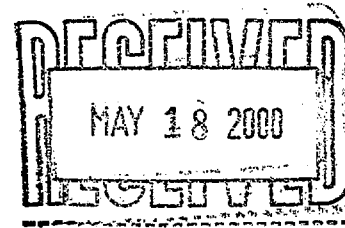
U.S. Fish and Wildlife Service  
2321 West Royal Palm Road, Suite 103  
Phoenix, Arizona 85021-4951  
Telephone: (602) 640-2720 FAX: (602) 640-2730



In Reply Refer To:

AESO/SE  
2-21-00-I-252

May 17, 2000



Ms. Karen J. Apple  
Airport/Environmental Planner  
Coffman Associates  
11022 North 28<sup>th</sup> Drive, Suite 240  
Phoenix, Arizona 85029

RE: Airport Master Plan and Associated Development, Rolle Airfield, Yuma County, Arizona

Dear Ms. Apple:

This letter responds to your April 27, 2000, request for an inventory of threatened or endangered species, or those that are proposed to be listed as such under the Endangered Species Act of 1973, as amended (Act), which may potentially occur in your project areas (Yuma County). The enclosed list may include candidate species as well. We hope the enclosed county lists of species will be helpful. In future communications regarding this project, please refer to consultation number 2-21-00-I-252.

The enclosed lists of the endangered, threatened, proposed, and candidate species includes all those potentially occurring anywhere in the county, or counties, where your project occurs. Please note that your project area may not necessarily include all or any of these species. The information provided includes general descriptions, habitat requirements, and other information for each species on the list. Also on the enclosed list is the Code of Federal Regulations (CFR) citation for each list and is available at most public libraries. This information should assist you in determining which species may or may not occur within your project area. Site-specific surveys could also be helpful and may be needed to verify the presence or absence of a species or its habitat as required for the evaluation of proposed project-related impacts.

Endangered and threatened species are protected by Federal law and must be considered prior to project development. If the action agency determines that listed species or critical habitat may be adversely affected by a federally funded, permitted, or authorized activity, the action agency must request formal consultation with the Service. If the action agency determines that the planned action may jeopardize a proposed species or destroy or adversely modify proposed critical habitat, the action agency must enter into a section 7 conference with the Service. Candidate species are those which are being considered for addition to the list of threatened or endangered species. Candidate species are those for which there is sufficient information to support a

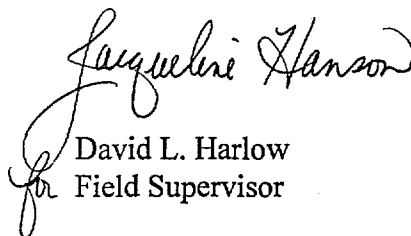
proposal for listing. Although candidate species have no legal protection under the Act, we recommend that they be considered in the planning process in the event that they become listed or proposed for listing prior to project completion.

If any proposed action occurs in or near areas with trees and shrubs growing along watercourses, known as riparian habitat, the Service recommends the protection of these areas. Riparian areas are critical to biological community diversity and provide linear corridors important to migratory species. In addition, if the project will result in the deposition of dredged or fill materials into waterways or excavation in waterways, we recommend you contact the Army Corps of Engineers which regulates these activities under Section 404 of the Clean Water Act.

The State of Arizona protects some plant and animal species not protected by Federal law. We recommend you contact the Arizona Game and Fish Department and the Arizona Department of Agriculture for State-listed or sensitive species in your project area.

The Service appreciates your efforts to identify and avoid impacts to listed and sensitive species in your project area. If we may be of further assistance, please feel free to contact Tom Gatz.

Sincerely,



David L. Harlow  
for Field Supervisor

Enclosures

cc: John Kennedy, Habitat Branch, Arizona Game and Fish Department, Phoenix, AZ

2/16/2000

## 1) LISTED

TOTAL= 8

NAME: NICHOL'S TURK'S HEAD CACTUS

*ECHINOCACTUS HORIZONTHALONIUS VAR NICHOLII*

STATUS: ENDANGERED

CRITICAL HAB No RECOVERY PLAN: No CFR: 44 FR 61927, 10-26-1979

DESCRIPTION: BLUE-GREEN TO YELLOWISH-GREEN, COLUMNAR, 18 INCHES TALL, 8 INCHES IN DIAMETER. SPINE CLUSTERS HAVE 5 RADIAL & 3 CENTRAL SPINES; ONE DOWNWARD SHORT; 2 SPINES UPWARD AND RED OR BASALLY GRAY. FLOWER: PINK FRUIT: WOOLLY WHITE

ELEVATION  
RANGE: 2400-4100 FT.

COUNTIES: PINAL, PIMA, YUMA

HABITAT: SONORAN DESERT SCRUB

FOUND IN UNSHADED MICROSITES IN SONORAN DESERT SCRUB ON DISSECTED ALLUVIAL FANS AT THE FOOT OF LIMESTONE MOUNTAINS AND ON INCLINED TERRACES AND SADDLES ON LIMESTONE MOUNTAIN SIDES.

NAME: SONORAN PRONGHORN

*ANTILOCAPRA AMERICANA SONORIENSIS*

STATUS: ENDANGERED

CRITICAL HAB No RECOVERY PLAN: Yes CFR: 32 FR 4001, 03-11-67

DESCRIPTION: BUFF ON BACK AND WHITE BELOW, HOOFED WITH SLIGHTLY CURVED BLACK HORNS HAVING A SINGLE PRONG. SMALLEST AND PALEST OF THE PRONGHORN SUBSPECIES.

ELEVATION  
RANGE: 2000-4000 FT.

COUNTIES: PIMA, YUMA, MARICOPA

HABITAT: BROAD, INTERMOUNTAIN ALLUVIAL VALLEYS WITH CREOSOTE-BURSAGE & PALO VERDE-MIXED CACTI ASSOCIATIONS

TYPICALLY, BAJADAS ARE USED AS FAWNING AREAS AND SANDY DUNE AREAS PROVIDE FOOD SEASONALLY. HISTORIC RANGE WAS PROBABLY LARGER THAN EXISTS TODAY. THIS SUBSPECIES ALSO OCCURS IN MEXICO.

NAME: RAZORBACK SUCKER

*XYRAUCHEN TEXANUS*

STATUS: ENDANGERED

CRITICAL HAB Yes RECOVERY PLAN: Yes CFR: 55 FR 21154, 05-22-1990;  
59 FR 13374, 03-21-1994

DESCRIPTION: LARGE (UP TO 3 FEET AND UP TO 16 POUNDS) LONG, HIGH SHARP-EDGED KEEL-LIKE HUMP BEHIND THE HEAD. HEAD FLATTENED ON TOP. OLIVE-BROWN ABOVE TO YELLOWISH BELOW.

ELEVATION  
RANGE: <6000 FT.

COUNTIES: GREENLEE, MOHAVE, PINAL, YAVAPAI, YUMA, LA PAZ, MARICOPA (REFUGIA), GILA, COCONINO, GRAHAM

HABITAT: RIVERINE &amp; LACUSTRINE AREAS, GENERALLY NOT IN FAST MOVING WATER AND MAY USE BACKWATERS

SPECIES IS ALSO FOUND IN HORSESHOE RESERVOIR (MARICOPA COUNTY). CRITICAL HABITAT INCLUDES THE 100-YEAR FLOODPLAIN OF THE RIVER THROUGH GRAND CANYON FROM CONFLUENCE WITH PARIA RIVER TO HOOVER DAM; HOOVER DAM TO DAVIS DAM; PARKER DAM TO IMPERIAL DAM. ALSO GILA RIVER FROM AZ/NM BORDER TO COOLIDGE DAM; AND SALT RIVER FROM HWY 60/SR 77 BRIDGE TO ROOSEVELT DAM; VERDE RIVER FROM FS BOUNDARY TO HORSESHOE LAKE.



2/16/2000

NAME: BALD EAGLE

*HALIAEETUS LEUCOCEPHALUS*

STATUS: THREATENED

CRITICAL HAB No RECOVERY PLAN: Yes CFR: 60 FR 35999, 07-12-95

DESCRIPTION: LARGE, ADULTS HAVE WHITE HEAD AND TAIL. HEIGHT 28 - 38";  
WINGSPAN 66 - 96". 1-4 YRS DARK WITH VARYING DEGREES OF  
MOTTLED BROWN PLUMAGE. FEET BARE OF FEATHERS.

ELEVATION

RANGE: VARIES FT.

COUNTIES: YUMA, LA PAZ, MOHAVE, YAVAPAI, MARICOPA, PINAL, COCONINO, NAVAJO, APACHE, SANTA CRUZ, PIMA,  
GILA, GRAHAM, COCHISE

HABITAT: LARGE TREES OR CLIFFS NEAR WATER (RESERVOIRS, RIVERS AND STREAMS) WITH ABUNDANT PREY

SOME BIRDS ARE NESTING RESIDENTS WHILE A LARGER NUMBER WINTERS ALONG RIVERS AND RESERVOIRS.  
AN ESTIMATED 200 TO 300 BIRDS WINTER IN ARIZONA. ONCE ENDANGERED (32 FR 4001, 03-11-1967; 43 FR 6233, 02-  
14-78) BECAUSE OF REPRODUCTIVE FAILURES FROM PESTICIDE POISONING AND LOSS OF HABITAT, THIS  
SPECIES WAS DOWN LISTED TO THREATENED ON AUGUST 11, 1995. ILLEGAL SHOOTING, DISTURBANCE, LOSS OF  
HABITAT CONTINUES TO BE A PROBLEM. SPECIES HAS BEEN PROPOSED FOR DELISTING (64 FR 36454) BUT STILL  
RECEIVES FULL PROTECTION UNDER ESA.

NAME: BROWN PELICAN

*PELECANUS OCCIDENTALIS*

STATUS: ENDANGERED

CRITICAL HAB No RECOVERY PLAN: Yes CFR: 35 FR 16047, 10-13-70; 35

DESCRIPTION: LARGE DARK GRAY-BROWN WATER BIRD WITH A POUCH UNDERNEATH  
LONG BILL AND WEBBED FEET. ADULTS HAVE A WHITE HEAD AND  
NECK, BROWNISH BLACK BREAST, AND SILVER GRAY UPPER PARTS.

FR 18320, 12-02-70

ELEVATION

RANGE: VARIES FT.

COUNTIES: LA PAZ YUMA

HABITAT: COASTAL LAND AND ISLANDS

SUBSPECIES IS FOUND ON PACIFIC COAST AND IS ENDANGERED DUE TO PESTICIDES. IT IS AN UNCOMMON  
TRANSIENT IN ARIZONA ON LOWER COLORADO RIVER. INDIVIDUALS WANDER UP FROM MEXICO IN SUMMER AND  
FALL. NO BREEDING RECORDS IN ARIZONA.

NAME: CACTUS FERRUGINOUS PYGMY-OWL

*GLAUCIDIUM BRASILIANUM CACTORUM*

STATUS: ENDANGERED

CRITICAL HAB Yes RECOVERY PLAN: No CFR: 62 FR 10730, 3-10-97

DESCRIPTION: SMALL (APPROX. 7"), DIURNAL OWL REDDISH BROWN OVERALL WITH  
CREAM-COLORED BELLY STREAKED WITH REDDISH BROWN. SOME  
INDIVIDUALS ARE GRAYISH BROWN

ELEVATION

RANGE: &lt;4000 FT.

COUNTIES: MARICOPA, YUMA, SANTA CRUZ, GRAHAM, GREENLEE, PIMA, PINAL, GILA, COCHISE

HABITAT: MATURE COTTONWOOD/WILLOW, MESQUITE BOSQUES, AND SONORAN DESERT SCRUB

RANGE LIMIT IN ARIZONA IS FROM NEW RIVER (NORTH) TO GILA BOX (EAST) TO CABEZA PRIETA MOUNTAINS  
(WEST). ONLY A FEW DOCUMENTED SITES WHERE THIS SPECIES PERSISTS ARE KNOWN, ADDITIONAL SURVEYS  
ARE NEEDED. CRITICAL HABITAT IN PIMA, COCHISE, PINAL, AND MARICOPA COUNTIES (64 FR 37419).

LISTED, PROPOSED, AND CANDIDATE SPECIES FOR THE FOLLOWING COUNTY:

Yuma

2/16/2000

NAME: SOUTHWESTERN WILLOW FLYCATCHER *EMPIDONAX TRAILLII EXTIMUS*

STATUS: ENDANGERED CRITICAL HAB Yes RECOVERY PLAN: No CFR: 60 FR 10694, 02-27-95

DESCRIPTION: SMALL PASSERINE (ABOUT 6") GRAYISH-GREEN BACK AND WINGS,  
WHITISH THROAT, LIGHT OLIVE-GRAY BREAST AND PALE YELLOWISH  
BELLY: TWO WINGBARS VISIBLE. EYE-RING FAINT OR ABSENT.

ELEVATION

RANGE: <8500 FT.

COUNTIES: YAVAPAI, GILA, MARICOPA, MOHAVE, COCONINO, NAVAJO, APACHE, PINAL, LA PAZ, GREENLEE, GRAHAM,  
YUMA, PIMA, COCHISE, SANTA CRUZ

HABITAT: COTTONWOOD/WILLOW & TAMARISK VEGETATION COMMUNITIES ALONG RIVERS & STREAMS

MIGRATORY RIPARIAN OBLIGATE SPECIES THAT OCCUPIES BREEDING HABITAT FROM LATE APRIL TO  
SEPTEMBER. DISTRIBUTION WITHIN ITS RANGE IS RESTRICTED TO RIPARIAN CORRIDORS. DIFFICULT TO  
DISTINGUISH FROM OTHER MEMBERS OF THE EMPIDONAX COMPLEX BY SIGHT ALONE. TRAINING SEMINAR  
REQUIRED FOR THOSE CONDUCTING FLYCATCHER SURVEYS. CRITICAL HABITAT ON PORTIONS OF THE 100-YEAR  
FLOODPLAIN ON SAN PEDRO AND VERDE RIVERS; WET BEAVER AND WEST CLEAR CREEKS, INCLUDING TAVASCI  
MARSH AND ISTER FLAT; THE COLORADO RIVER, THE LITTLE COLORADO RIVER, AND THE WEST, EAST, AND  
SOUTH FORKS OF THE LITTLE COLORADO RIVER, REFERENCE 60 CFR:62 FR 39129, 7/22/97.

NAME: YUMA CLAPPER RAIL

*RALLUS LONGIROSTRIS YUMANENSIS*

STATUS: ENDANGERED CRITICAL HAB No RECOVERY PLAN: Yes CFR: 32 FR 4001, 03-11-67; 48

DESCRIPTION: WATER BIRD WITH LONG LEGS AND SHORT TAIL. LONG SLENDER  
DECURVED BILL. MOTTLED BROWN ON GRAY ON ITS RUMP. FLANKS  
AND UNDERSIDES ARE DARK GRAY WITH NARROW VERTICAL STRIPES  
PRODUCING A BARRING EFFECT.

ELEVATION

RANGE: <4500 FT.

COUNTIES: YUMA, LA PAZ, MARICOPA, PINAL, MOHAVE

HABITAT: FRESH WATER AND BRACKISH MARSHES

SPECIES IS ASSOCIATED WITH DENSE EMERGENT RIPARIAN VEGETATION. REQUIRES WET SUBSTRATE  
(MUDFLAT, SANDBAR) WITH DENSE HERBACEOUS OR WOODY VEGETATION FOR NESTING AND FORAGING.  
CHANNELIZATION AND MARSH DEVELOPMENT ARE PRIMARY SOURCES OF HABITAT LOSS.

2/16/2000

2) PROPOSED

TOTAL=1

NAME: MOUNTAIN PLOVER

*CHARADRIUS MONTANUS*

STATUS: PROPOSED THREATENED CRITICAL HAB: No RECOVERY PLAN: No CFR: 64 FR 7587; 02-16-1999

DESCRIPTION: WADING BIRD; COMPACTLY BUILT; IN BREEDING SEASON WITH WHITE

FOREHEAD AND LINE OVER THE EYE; CONTRASTING WITH DARK

CROWN; NONDESCRIPT IN WINTER. VOICE IS LOW, VARIABLE WHISTLE. ELEVATION

RANGE: VARIABLE FT.

COUNTIES: YUMA, PIMA, COCHISE, PINAL, APACHE

HABITAT: OPEN ARID PLAINS, SHORT-GRASS PRAIRIES, AND SCATTERED CACTUS.

AZ PROVIDES WINTERING HABITAT ONLY. SPECIES PRIMARILY FOUND IN ROCKY MOUNTAIN STATES FROM CANADA TO MEXICO; SERVICE ACCEPTING COMMENTS ON PROPOSED RULE UNTIL APRIL 19, 1999; R6 HAS LEAD

2/16/2000

## CONSERVATION AGREEMENT

TOTAL= 1

NAME: FLAT TAILED HORNED LIZARD *PHRYNOSOMA MCALLII*

STATUS: NONE CRITICAL HAB: No RECOVERY PLAN: No CFR:

DESCRIPTION: TYPICAL FLATTENED BODY SHAPE OF HORNED LIZARDS; DARK  
VERTEBRAL STRIPE; LACKS EXTERNAL EAR OPENINGS; COLOR IS  
CRYPTIC RANGING FROM PALE GRAY TO LIGHT RUST BROWN; HAS  
TWO ROWS OF FRINGED SCALES ON EACH SIDE OF BODY ELEVATION  
RANGE: 500 FT. FT.

COUNTIES: YUMA

HABITAT: SANDY FLATS OR AREAS WITH FINE, WINDBLOWN SAND; CREOSOT-WHITE BURSAGE SERIES OF  
SONORAN DESERT

CONSERVATION AGREEMENT FINALIZED IN MAY 1997. SPECIES ALSO FOUND IN PORTIONS OF SAN DIEGO  
COUNTY, CENTRAL RIVERSIDE COUNTY, AND IMPERIAL COUNTY, CALIFORNIA; ALSO SONORA AND BAJA  
CALIFORNIA, MEXICO

SHELDON R. JONES  
Director

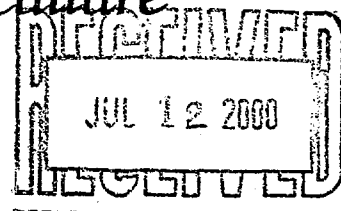


G. JOHN CARAVETTA  
Associate Director

# Arizona Department of Agriculture

1688 West Adams, Phoenix, Arizona 85007  
(602) 542-4373 FAX (602) 542-0999

PLANT SERVICES DIVISION



July 10, 2000

Kathryn W. May, AICP  
Airport/Environmental Planner  
Coffman Associates  
11022 N. 28<sup>th</sup> Dr., Ste. 240  
Phoenix, AZ 85029

RE: Airport Master Plan & Associated Development, Rolle Airfield, Yuma County,  
Arizona

Dear Ms. May:

The Arizona Department of Agriculture has reviewed the referenced information enclosed with your letter of June 15, 2000.

Based on the information provided, the projects are not expected to have any significant adverse impact to protected plant species. The Department recommends that if any protected plants exist on site, they be avoided or transplanted, preferably on site.

We appreciate the opportunity to review the proposed action. If you need additional information, please contact me at 602/542-3292.

Sincerely,

A handwritten signature in cursive script that reads "James McGinnis".

James McGinnis  
Chief Enforcement Officer  
Resource Protection

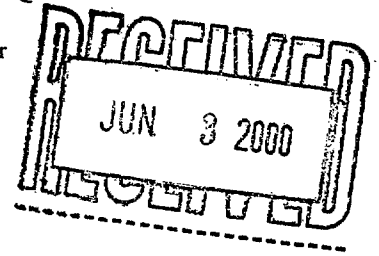
JM:clw



## ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

Governor Jane Dee Hull

Jacqueline E. Schafer, Director



June 1, 2000

Karen J. Apple,  
Airport Environmental Planner  
Coffman And Associates  
11022 North 28th Drive, Suite 240  
Phoenix, Arizona 85029

**RE: Airport Master Plan, Rolle Airfield, Yuma County, Arizona.**

Dear Ms. Apple:

The purpose of this letter is to provide you with air and water quality information for the project listed above. The proposed project is located within an air quality nonattainment area for Particulate Material, 10 microns or less (PM<sub>10</sub>). Air quality permits may be required during construction. Design review of all improvements should focus on application of Best Management Practices to reduce particulates. Extra paving, gravel mulches, and vegetation are examples of BMP's that could be employed to minimize air quality problems attributable to the facility.

Due to the potential to emit particulate matter during construction of planned improvements, we would request that steps are taken to minimize the amount of particulate matter (dust or sediment) generated, including incidental emissions caused by strong winds, water born sediment, as well as tracking of dirt off the construction site by machinery and trucks. We recommend that the following preventive and mitigative measures be taken to minimize the possible pollution problem:

### I. Site Preparation

- A. Minimize land disturbance;
- B. Use watering trucks to minimize dust;
- C. Cover trucks when hauling dirt and debris;
- D. Stabilize the surface of dirt piles and any disturbed areas;
- E. Use windbreaks to prevent any accidental dust pollution; and
- F. Segregate stormwater drainage from construction sites and material piles.

### II. Construction Phase

- A. Cover trucks when transferring materials; and
- B. Minimize unnecessary vehicular and machinery activities.

Ms. Apple  
June 1, 2000  
Page 2

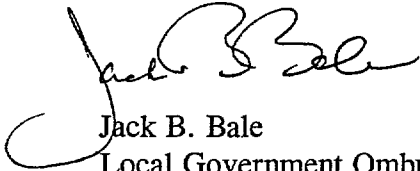
### III. Completion Phase

- A. Revegetate any disturbed land not used;
- B. Remove unused material and dirt piles; and
- C. Revegetate all disturbed areas if appropriate.

A copy of the ADEQ Permit Handbook is inclosed for your use. Applicable state rules are contained in A.A.C. R18-2-604, R18-2-605, R18-2-606, and R18-2-607. In addition, please be aware that portable sources of air pollution such as rock, sand, gravel, and asphaltic concrete plants are required to receive permits from ADEQ to operate in the State.

Thank you for the opportunity to comment. Should you have any further questions, please contact Andra Juniel in the Office of Air Quality at (602) 207-4417 or Jack Bale, Local Government Ombudsman at (602) 207-2254.

Sincerely,



Jack B. Bale  
Local Government Ombudsman

Enclosure

cc: Andra Juniel  
Troy Day  
Dot N. Roberson, Executive Assistant

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Jane Dee Hull  
Governor

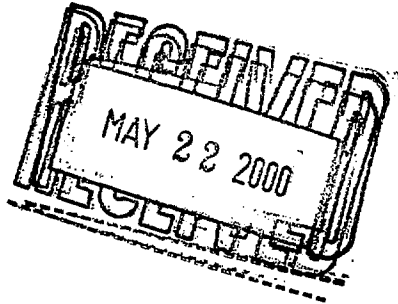
Michael E. Anable  
State Land  
Commissioner

# Arizona State Land Department



1616 West Adams Street Phoenix, AZ 85007 [www.land.state.az.us](http://www.land.state.az.us)

May 18, 2000



Karen J. Apple, Planner  
Coffman Associates  
11022 North 28<sup>th</sup> Drive, Suite 240  
Phoenix, Arizona 85029

RE: Rolle Airfield

Dear Ms. Apple:

Thank you for the opportunity to comment on the Master Plan for Rolle Airfield. There are several thousands of acres of State Trust land in southwestern Yuma County in proximity to the airfield, but there are no Trust parcels adjacent to subject site. At this time, the Land Department is neutral regarding the various alternative actions as there does not appear to be any potential negative impacts to the Trust.

In response to the request in your April 27<sup>th</sup> correspondence -- "to provide any known environmental resources and sensitivities potentially associated with the development and/or use of the airport facility at Rolle Airfield" -- my input is related to the acknowledgment of high seismic hazards in the Yuma region -- considered the greatest in the state. A publication to which you may refer is *Yuma Community Earthquake Hazard Evaluation* by D.B. Bausch & D.S. Brumbaugh, Arizona Earthquake Information Center, Northern Arizona University, May 1996. Naturally, future development of landside facilities would be of primary concern.

The State Land Department desires to maintain good communication with Arizona's growing communities in its mission to manage state lands for State Trust beneficiaries. Thank you again for the opportunity to review proposed airfield improvements at Rolle Airfield in Yuma County.

Respectfully Submitted,

Catherine Balzano Williams, Planner  
Asset Management Division

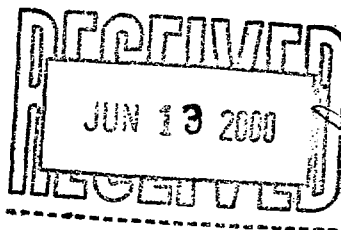


"Managing and conserving natural, cultural, and recreational resources"

June 9, 2000

In reply, please refer to SHPO Project No.

Karen J. Apple  
Airport/Environmental Planner  
Coffman Associates  
11022 North 28<sup>th</sup> Drive, Suite 240  
Phoenix, AZ 85029



Arizona  
State Parks

Jane Dee Hull  
Governor

State Parks  
Board Members

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Vernon Roudebush  
Safford

Walter D. Armer, Jr.  
Benson

Suzanne Pfister  
Phoenix

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Mesa

John U. Hays  
Yarnell

Sheri J. Graham  
Sedona

Michael E. Anable  
State Land  
Commissioner

Kenneth E. Travous  
Executive Director

Arizona State Parks  
1300 W. Washington  
Phoenix, AZ 85007

Tel & TTY: 602.542.4174  
www.pr.state.az.us

800.285.3703  
from (520) area code

General Fax:  
602.542.4180

Director's Office Fax:  
602.542.4188

RE: Airport Master Plan and Associated Development, Rolle Airfield, Yuma County, AZ  
BOR and FAA  
SHPO Project No. 2000-1243 ✓

Dear Ms. Apple:

Thank you for consulting with our office regarding known cultural resources in the area of the Rolle Airfield near San Luis, AZ as part of the environmental review for the proposed development of the airfield. The airfield is located on land under the jurisdiction of the U.S. Bureau of Reclamation (BOR), and will require consultation under the provisions of Section 106 of the National Historic Preservation Act. We will defer comment until we hear from the BOR. By copy of this letter to Carol Tellez of the BOR Yuma Office, we are informing the Agency of our need to consult.

We appreciate the efforts expended by your office in considering the potential impacts to Arizona's cultural resources that might occur as a result of federal actions.

Sincerely,

to Anne Miller  
Compliance Specialist/Archaeologist  
State Historic Preservation Office

Cc: Carol Tellez, BOR, Yuma, AZ  
David Kessler, FAA, Los Angeles, CA



THE STATE OF ARIZONA  
**GAME AND FISH DEPARTMENT**

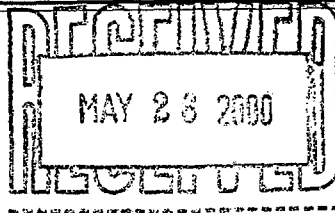
2221 WEST GREENWAY ROAD, PHOENIX, AZ 85023-4399  
(602) 942-3000 • WWW.AZGFD.COM

Yuma Office, 9140 E 28<sup>th</sup> Street, Yuma, AZ 85365-3596 (520) 342-0091

GOVERNOR  
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DEPUTY DIRECTOR  
STEVE K. FERRELL



May 24, 2000



Karen J. Apple  
Airport/Environmental Planner  
Coffman Associates  
11022N. 28<sup>th</sup> Drive  
Suite 240  
Phoenix, Arizona 85029

Re: Request for Information on Environmental Resources and Sensitive Species for Rolle  
Airfield Master Plan, Yuma County

Dear Ms. Apple:

The Arizona Game and Fish Department (Department) has reviewed the your letter dated April 27, 2000 requesting input on environmental resources and sensitivities for the Airport Master Plan for Rolle Airfield located in Township 10 South, Range 24 West, Section 35. The following comments are provided for your consideration.

The Department's Heritage Data Management System has been accessed and current records show that the special status species listed below have been documented as occurring in the project vicinity.

<u>COMMON NAME</u>	<u>SCIENTIFIC NAME</u>	<u>STATUS</u>
flat-tail horned lizard	<i>Phrynosoma mcallii</i>	WC
sand food	<i>Pholisma sonora</i>	HS

**STATUS DEFINITIONS**

**WC - Wildlife of Special Concern in Arizona.** Species whose occurrence in Arizona is or may be in jeopardy, or with known or perceived threats or population declines, as described by the Department's listing of **Wildlife of Special Concern in Arizona** (WSCA, in prep.). Species included in WSCA are currently the same as those in **Threatened Native Wildlife in Arizona** (1988).

Karen J. Apple  
May 24, 2000  
2

**HS - Highly Safeguarded.** Those Arizona native plants whose prospects for survival in this state are in jeopardy or are in danger of extinction, or are likely to become so in the foreseeable future, as described by the Arizona Native Plant Law (1993).

The Department understands that this proposed project involves the development of an Airport Master Plan for Rolle Airfield. We note that the plan identifies several facility improvements including: extending existing runway, constructing parallel taxiways, relocating turnouts and holding aprons, installing lights, constructing hangars and reserving areas for automobile parking and terminal facility.

The Department notes that the Flat-tailed Horned Lizard (FTHL) occurs in the vicinity of the project and that the airfield is on land owned by the Bureau of Reclamation (BOR). BOR is a signatory agency to the FTHL Rangewide Management Strategy. The Department recommends analyzing potential impacts to this sensitive species and contacting BOR, at the address provided below, about potential mitigation requirements. This analysis should include impacts from paving access roads and increasing the volume and speed of vehicle traffic to the site.

Mr. Jim Cherry  
Area Manager, Yuma Office  
Bureau of Reclamation  
7301 Calle Agua Salada  
P.O. Box D  
Yuma AZ 85366  
(520) 343-8100

Department records indicate that Sand Food occurs in the vicinity of this project. Therefore, the Department recommends contacting the Arizona Department of Agriculture, at the address provided below, for additional information on the Arizona Native Plant Law, and how it may apply to this protected native plant species.

Mr. James McGinnis  
Manager, Native Plant Law  
Plant Services Division  
Arizona Department of Agriculture  
1688 West Adams  
Phoenix, Arizona 85007  
Phone: 602-407-3292

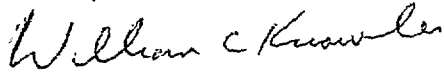
Thank you for the opportunity to review and comment on this proposed project. If you have any questions, please contact me at 520-342-0091.

Karen J. Apple

May 24, 2000

3

Sincerely,



William C. Knowles

Habitat Specialist

Region IV, Yuma

cc: Russell Engel, Habitat Program Manager, Region IV  
Larry Voyles, Regional Supervisor, Region IV  
John Kennedy, Proj. Eval. Prog. Supervisor, Habitat Branch  
Jim Cheery, Area Manager, Bureau of Reclamation  
James McGinnis, Manager, Native Plant Law ADOA

AGFD 05-02-00 (03)

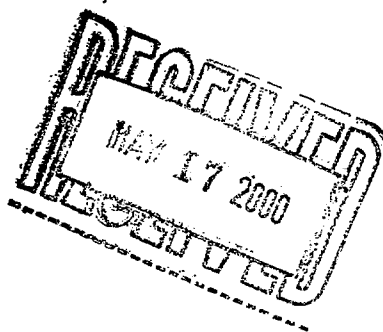


**Yuma County, Arizona**  
**DEPARTMENT OF DEVELOPMENT SERVICES**  
2703 S. Avenue B • Yuma, Arizona 85364

Harold Aldrich  
Director  
(520) 329-2300  
FAX: (520) 726-5626

May 11, 2000

Ms. Karen Apple  
Airport/ Environmental Planner  
Coffman Associates Airport Consultants  
11022 N. 28<sup>th</sup> Drive Suite 240  
Phoenix, AZ 85029



RE: Airport Master Plan and Associated Development, Rolle Airfield, Yuma County, Arizona

Dear Ms. Apple:

I have reviewed the brief description of the Rolle Airfield setting and background proposing improvements. Pursuant to your request, this letter contains our input regarding known environmental resources and sensitivities potentially associated with the development and/or use of the airport facility at Rolle Airfield. The following observations address our knowledge of the condition on the local habitat, soils, geology, earthquake hazards and includes additional comments and concerns.

The planning area encompasses a distinct habitat type and supports many species of desert animals (both indigenous and migratory). The proposed plan covers an area within the Lower Colorado River Subdivision of the Sonoran Desert and is composed of sandy plains containing micro-dunes. The vegetation cover consists of Big Galleta Grass (*Hilaria rigida*), Creosote Bush (*Larrea tridentata*) and White Bursage (*Ambrosia dumosa*). Wildlife species that inhabit the area primarily are: Coyote, Kit Fox, Desert Cottontail Rabbit, Collard Lizard, Desert Iguana, Western Whiptail, Western Banded Gecko, Gila Monster, Sidewinder, Kangaroo Rat, Desert Tortoise, Gambel's Quail, Burrowing Owl, Turkey Vulture and even wild dogs. In addition, the Pacific flyway for migrating birds, ducks, geese and predator species bisects the area. Naturally, these birds use the agricultural fields and citrus groves as resting and grazing areas.

Soils types in the area are Rositas-Superstition. These are characterized as having rapid permeability, being deep, nearly level to undulating, located on old terraces, alluvial fans, and sand dunes. Furthermore, the potential rooting depth is 60 inches or more, available water capacity is low to moderate, surface runoff slow and the hazard of blowing sand high. Due to these characteristics and the sandy texture, the soil is limited for urban

Monty M. Stansbury  
Planning Director  
Planning & Zoning  
(520) 329-2300

Curtis Cansler  
Chief Building Official  
Building Safety  
(520) 329-2290

Roger A. Patterson, P.E.  
County Engineer  
Engineering Division  
(520) 329-2300

Roger E. Schoenherr, P.E.  
Manager/Engineer  
Flood Control District  
(520) 329-2302

1

FAX: (520) 317-8302

FAX: (520) 726-5801

B-19

FAX: (520) 726-5626 • TDD: (520) 329-2304

development as well as sewage lagoons.

Geologically, the Algodones fault passes through the heart of Yuma Valley and within 10 kilometers of Yuma. The fault appears to be a continuation to the southeast of the San Andreas transform fault through southeastern California, southwestern Arizona and northern Sonoran, Mexico. The seismic characteristics of the northern end of the Algodones fault from the Yuma Basin to the head of the Gulf of California is the greatest concern to the Yuma area.

The potential for earthquakes is relatively unknown and ambiguous. However, just recently on May 2, 2000 three earthquakes with a 4.4 - 4.5 magnitude ranges were documented by U.S. Geological Survey located approximately 33 - 40 miles SSW of Yuma on the Yuma Desert into Mexico. Considering the history and number of occurrences along the Algodones fault in the 4.0 magnitude or more, a buildup of strain at the north end of the fault could be released. Thus, earthquake risk does exist and pose a threat to any new Airfield development (Bausch and Brumbaugh, 1996).

The Yuma Desert Watershed encompassing the Airport should also be taken into consideration as part of the development criteria. No surface waters exist in the area and the available groundwater is administered under the jurisdiction of the Bureau of Reclamation (BOR). Currently, there is discussion between the State of Arizona and the BOR as to appropriation of water rights.

**Additional comments and concerns include:**

1. The Rolle Airfield is located within the Bureau of Reclamation Lands 5-mile well field Protective Zone.
2. The endangered Yuma Desert Flat-tailed Horned Lizard Management Area administered by Bureau of Land Management is located just southeast of the Airfield. The land adjacent to the airport is where the Flat-tailed Horned Lizard are found as habitat is favorable. The Fringe-Toed Lizard and Desert Tortoise (Endangered Species) have also been documented in the area.
3. The Arizona State Prison Complex - The Prison is located at County 23<sup>rd</sup> and Avenue B. It consists of 3 units and houses a total of 2245 prisoners. The City of San Luis has recently negotiated to have a private prison for 2000 beds be constructed to the south of the Airfield near County 23<sup>rd</sup> and Avenue E. Thus, this development in conjunction with the Airport's would have further impacts on diminishing available habitats for existing species.
4. To the northeast of the Airfield are State of Arizona Lands that have been leased for agriculture purposes. Crops grown in the area include alfalfa, potatoes, wheat, citrus and dates. There are also private lands to the south of the Airfield that have

been agriculturally developed in citrus groves.

5. The Airfield is located to the north and west of the proposed Area Service Highway (ASH or Hwy. 195) that is a proposed four lane commercial vehicle highway. This will increase traffic, both legal and illegal, around the vicinity of the airport and increase incidents related to immigrant crossing.
6. In concurrence with Hwy. 195 (ASH), a commercial Port-of-Entry is planned to be developed at Avenue E and the Mexico border. This Port is anticipated to open within the next 10 years. Across from the Port of Entry in Mexico is a large Industrial Park that has several manufacturers producing products ranging from clothing to Microwave ovens.
7. The U.S. Border Patrol have patrolled by four wheel drive vehicles and helicopters around the airport for illegal immigrants coming in from Mexico. The Border is approximately 4 miles south of the Airfield. Again, immigrants regularly cross the Airport area and subsequently a fencing mechanism should be considered around the runways and approaches.
8. The airspace around the Rolle Airfield is flown by McDonnell Douglas aerospace Service company for testing purposes on a regular basis.
9. The National Oceanic and Atmospheric Administration Hurricane Tracking (Doppler Radar) site is located approximately 1 ½ miles south of the Airfield. The City of San Luis and the Yuma Desert area experienced several hurricane related storms in the early 1990's and winds were clocked up to 75 mph. Damage was incurred in San Luis, Somerton, Yuma and the Foothills areas in Yuma County. Hurricane storms come north up the Baja California coastline into the Yuma Desert bringing damaging winds and rains especially during the summer season June-September.
10. San Luis growth has occurred annually around 19.6% with the majority of construction in residential development.. Their new General Plan for the 2010 planning horizon addressing future growth and infrastructure plans should be analyzed.
11. Surrounding Yuma County Land Uses Classifications includes Residential Agriculture 10 acre minimum ( RA10) zoning to the north, east and to the south-southeast (Map attached). To the northwest the zoning in the Yuma Valley below the mesa is Residential Agriculture 40 acre minimum (RA-40).
12. County 23<sup>rd</sup> street that is south of the Rolle airport is currently one of two routes that the commercial trucks are using coming and going from the Interstate 8 (I-8) to Mexico. Some of the trucks carry hazardous materials into Mexico as well as bring

out hazardous materials. . Currently, the road is only two lanes wide and it has private commuting vehicles, commercial trucks and agricultural equipment traveling on it. The traffic congestion on this two lane road often leads to accidents closing the road and rerouting traffic until the accident has been mopped up. This traffic route would conflict with any traffic generated by the airport onto County 23<sup>rd</sup> Street road. It would be advisable to have traffic routed to County 19 Street road to eliminate any traffic conflicts.

13. Emergency Services for police and fire protection are from the City of San Luis. The Hazardous Materials Response Team comes from the City of Yuma and Marine Corps Air Station (MCAS) Yuma. The City of San Luis, Arizona and San Luis Rio Colorado, Mexico are in the process of finding the funding to provide an HAZMAT vehicle to respond to needed emergencies along the Mexico Border. There is a binational agreement between the two cities to respond cooperatively to any incidents when needed.

The aforementioned observations are further discussed in detail in the *San Luis / Somerton Background Studies and Community Assessment* written and published by the Long Range Planning Section of Yuma County. If there are any questions concerning this reply contact me at (520) 329-2300 ext.173 or [gaga@dds.co.yuma.az.us](mailto:gaga@dds.co.yuma.az.us).

Sincerely,



Gail Gallagher  
Environmental Planner

Enclosure: (1)

cc: Harold Aldrich

Monty Stansbury

GG/gg

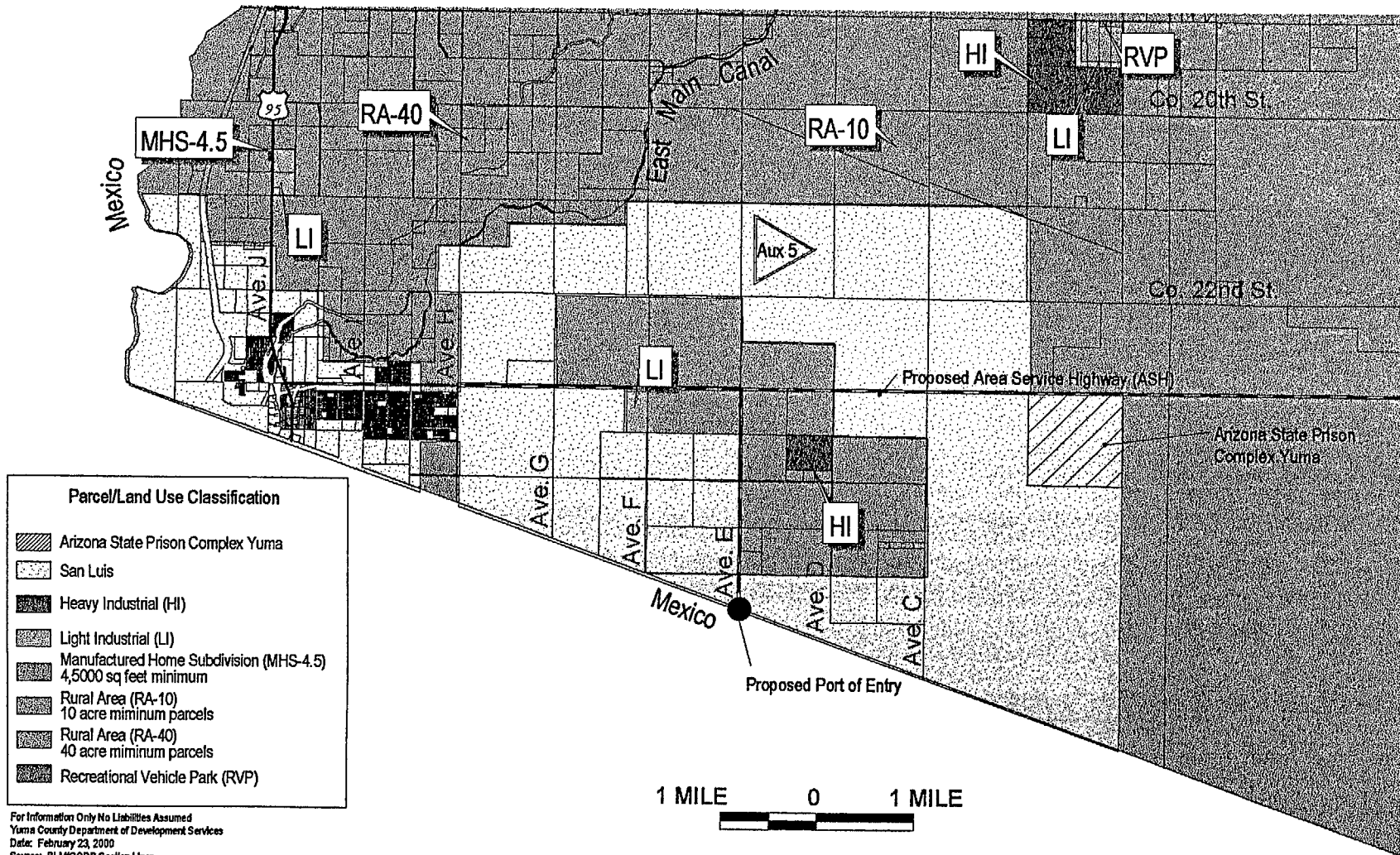
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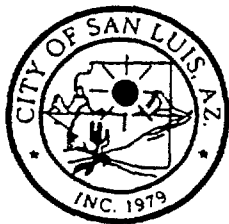


# Yuma County Land Use Classifications Surrounding San Luis Arizona

B-23

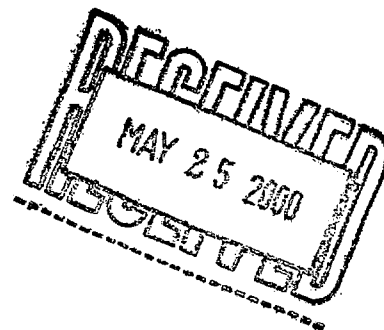


For Information Only No Liabilities Assumed  
Yuma County Department of Development Services  
Date: February 23, 2000  
Source: BLM/GCDB Section Lines



# City of San Luis

POST OFFICE BOX 1170  
23222 FIRST STREET  
SAN LUIS, ARIZONA 85349-1170  
(520) 627-2027; FAX: (520) 627-3879



May 24, 2000

Ms. Kathryn W. May, AICP  
Coffman Associates  
11022 N. 28<sup>TH</sup> Drive, Suite 240  
Phoenix, Arizona 85029

Dear Ms. May:

I have review the material that was provided by your organization. I have a few comments that I would like to touch on.

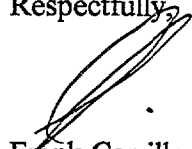
1. Will there be any additional access to the airport from the West? The City of San Luis is growing so fast that this maybe needed.
2. The noise level at the airport is something the City is concerned about.
3. The PM 10 count is also a concern of the City
4. The City agrees with you in regard to the lack of airspace to the south , but the same problem exists to the west. Mexican airspace is about seven miles from the airport site.
5. Will this airport be able to handle Lear jet type of aircraft.
6. The effect of the airport in relation to the proposed Port of Entry. Will it keep pace or be developed out to meet the needs that this port will generate.
7. What are the infrastructure needs for this airport and who will pay for them?
8. What type of municipal services will be needed or will the airport provide them.
9. What type of activity will this airport be used for, IE: agricultural, cargo, charter, private?
10. Will a traffic study be done for the area, to reflect the changes in size of the area and the overall volume of traffic. To keep pace with the growth of the City and the additional development to the area.
11. There will be a new high school located about five miles from the site.
12. The airport site is within lands that the Bureau of Reclamation has withdrawn for endangered species and for the Five Mile Protective and Regulatory Pumping Boundaries.
13. Will the airport have fuel on site and if so will there be someone assigned to respond in the event of an accident. Will the local Fire Department be included in this plan?
14. Will the Area Service Hwy. be effected by these improvements.

The City of San Luis has no objection to the improvements at this sit. I would like to thank you for allowing the City of San Luis to make known it's concerns. The City is growing at a rapid pace, in the next twenty years this area may have in excess of 150,000 people. Planning is vital to an area such as ours in that it will continue to grow and all factors need to be taken into

account.

Should there be any other information that you require or that I might be of help with please feel free to contact me.

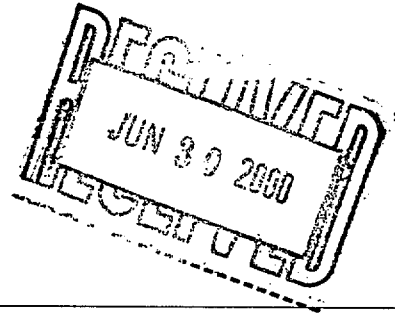
Respectfully,

A handwritten signature in dark ink, appearing to read 'Frank Carrillo', written over the printed name.

Frank Carrillo  
Asst. City Administrator



## City of Somerton



110 N. State Avenue  
P.O. Box 638  
Somerton, Arizona 85350

(520) 627-8866  
Fax: (520) 627-3794

TDD: (520) 627-8866

June 26, 2000

Kathryn W. May, AICP  
Coffman Associates  
11022 N. 28<sup>th</sup> Drive, Suite 240  
Phoenix, AZ 85029

RE: *Airport Master Plan and Associated Development, Rolle Airfield*

Dear Ms. May:

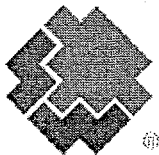
Upon review of the proposed airfield improvements at the Rolle Airfield, Yuma County, Arizona, we have only one comment:

The City is not opposed to the airfield improvements as long as there is not a change in the number of aircraft flying over the City of Somerton.

If we can be of further assistance in this matter please contact us at City Hall,  
(520)-627-8866.

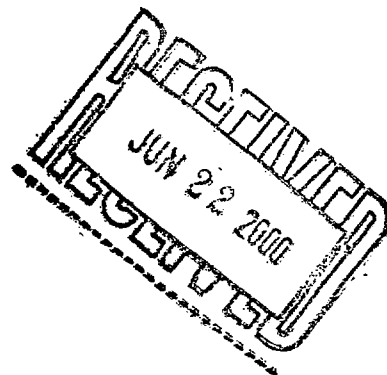
Sincerely,

Cliff O'Neill  
Community Development Director



**SOUTHWEST GAS CORPORATION**

Ms. Kathryn May  
Coffman Associates  
11022 N. 28<sup>th</sup> Drive, Suite 240  
Phoenix, AZ 85029



June 20, 2000

Regarding: Rolle Airfield

Dear Ms. May,

Attached please find an area map representing several square miles surrounding Rolle Airfield and the approximate location of Southwest Gas Corporation facilities.

Southwest Gas anticipates no conflict with the proposed airfield improvements.

For assistance with planned natural gas usage please contact Mario Jordan of our Marketing Department at (520) 344-2906 or via mail at 3280 South 4<sup>th</sup> Avenue, Suite B, Yuma, Arizona, 85365.

Thank you for the notification and opportunity to comment. If I can be of further assistance please call.

Sincerely,

Darren N Rutledge  
Technical Services  
Supervisor/Engineering  
(520) 783-3305  
480-650



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**KANSAS CITY**  
**(816) 524-3500**

237 N.W. Blue Parkway  
Suite 100  
Lee's Summit, MO 64063

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**PHOENIX**  
**(602) 993-6999**

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Phoenix, AZ 85029